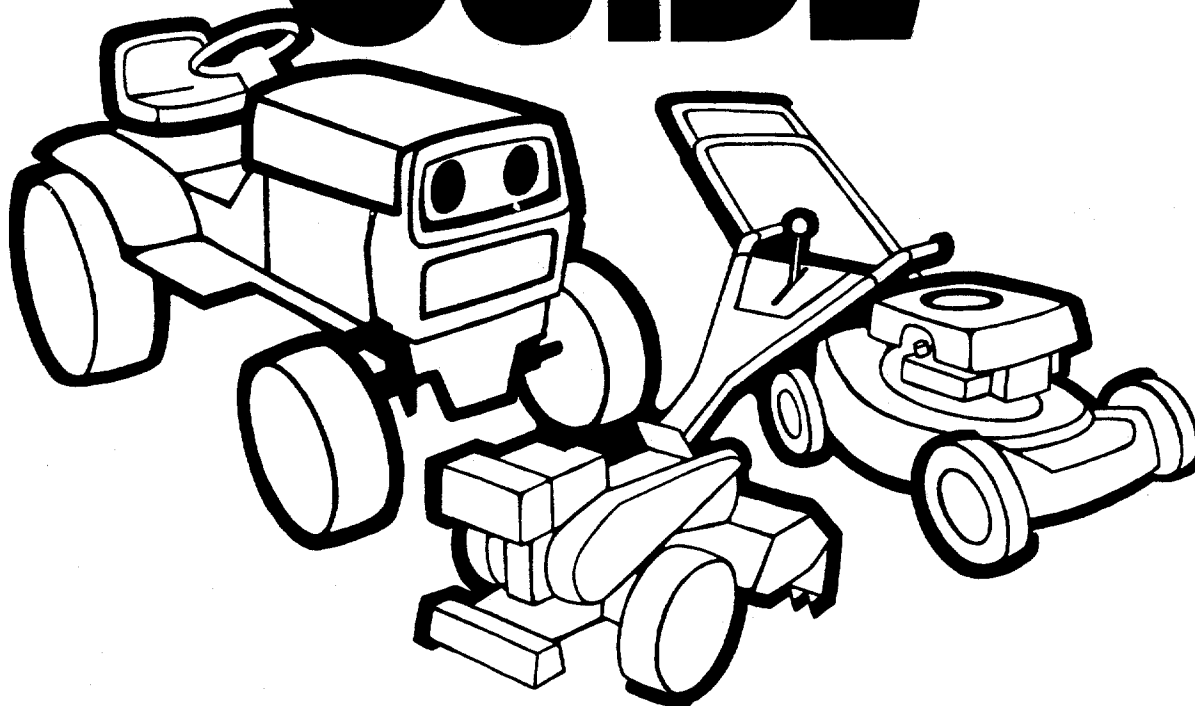


\$1.00

OWNER'S GUIDE



**22" REAR
DISCHARGE
ROTARY
MOWER**

**Model Number
127-362-000**

IMPORTANT: Read Safety Rules and Instructions Carefully

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Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at MTD Products Inc are taking a quick moment out to say...

"Thank you for your business."

Sincerely,

MTD PRODUCTS INC



INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

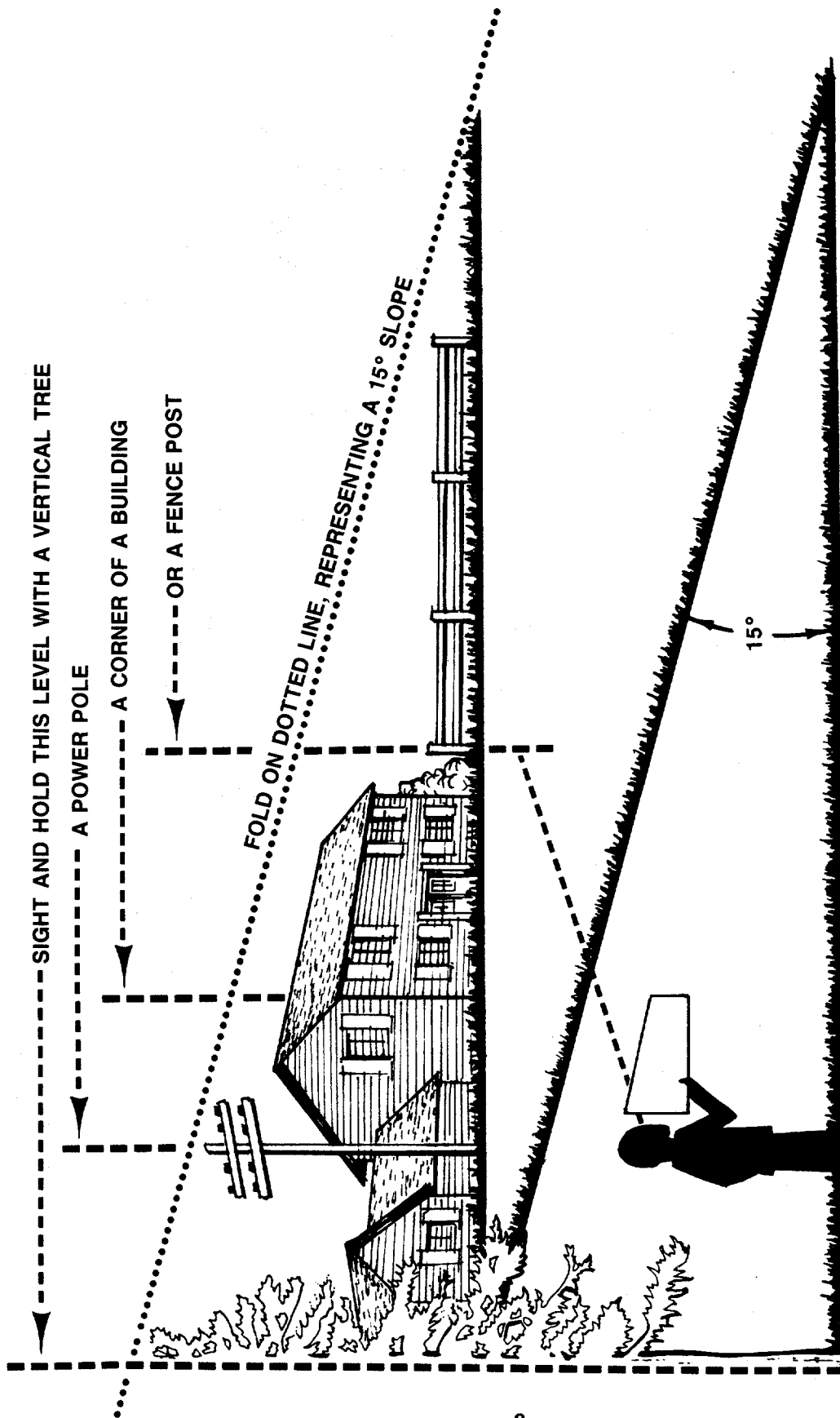
In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

Cut Along This Line

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)



Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

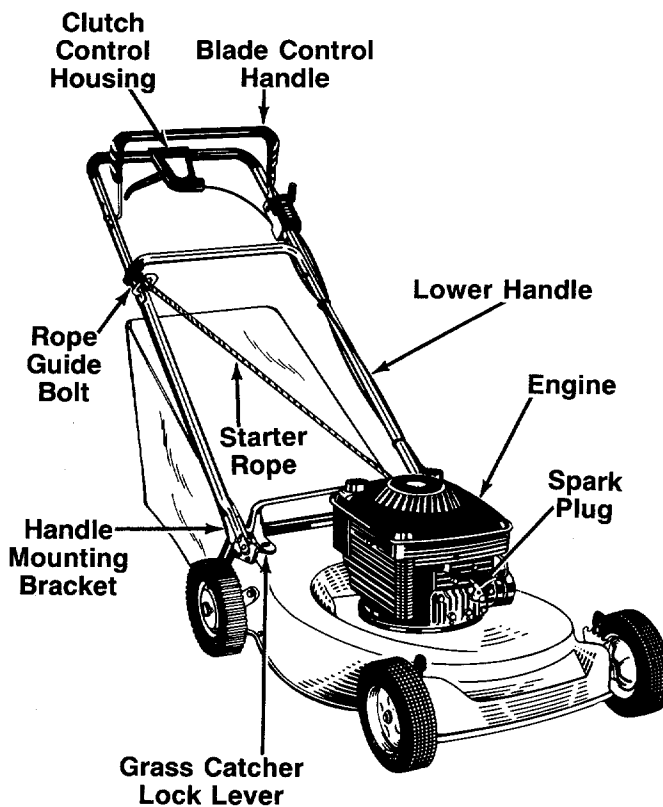
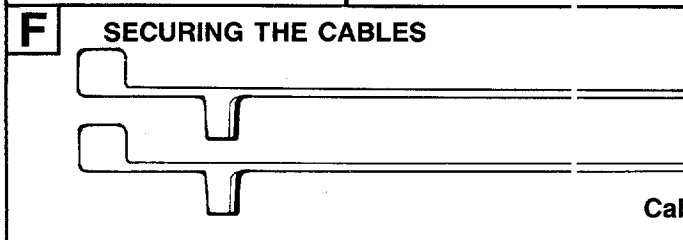
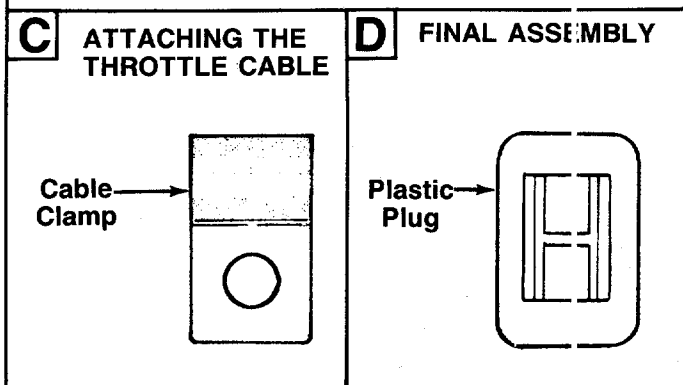
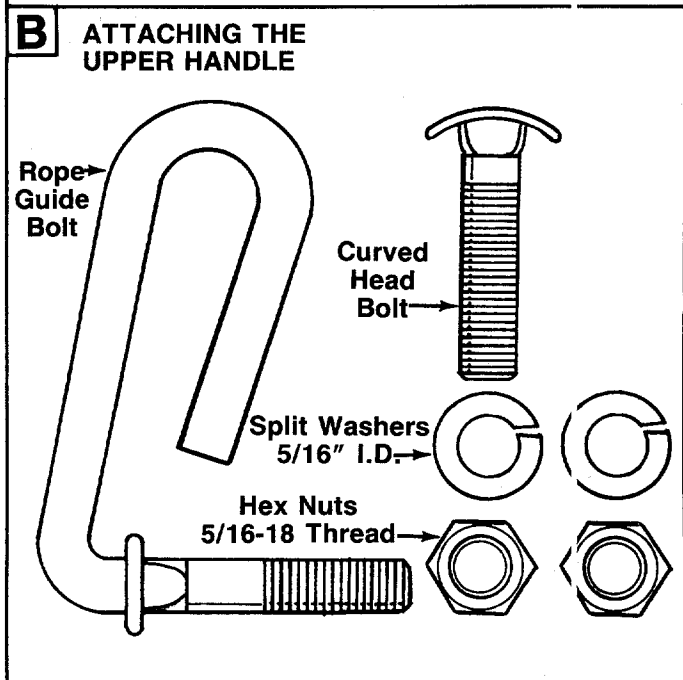
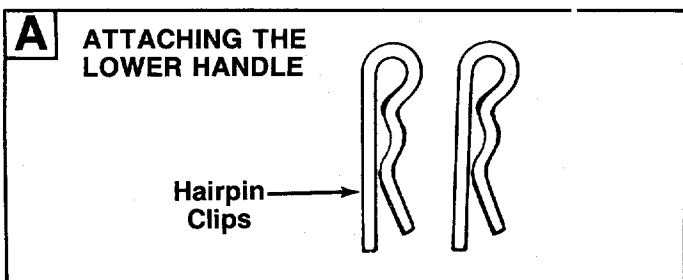
Operate RIDING mowers up and down slopes, never across the face of slopes.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

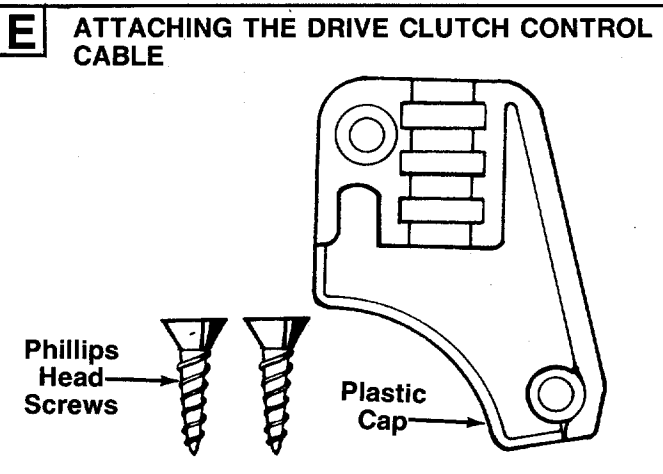
CONTENTS OF HARDWARE PACK/PARTS IDENTIFICATION

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.

(Hardware pack may contain extra items which are not used on your unit.)




PARTS IDENTIFICATION



IMPORTANT

RULES FOR SAFE OPERATION



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL—  **HEED ITS WARNING.**



DANGER

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.



TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.



PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.



OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.
11. Do not operate this mower with the chute door open, unless the complete grass catcher is properly mounted on the mower.



MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

➡ IMPORTANT: This unit is shipped **WITHOUT GASOLINE** or **OIL**. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

➡ NOTE: Reference to right or left hand side of the mower is observed from the operating position. Refer to parts identification on page for location of parts when assembling the mower.

ASSEMBLY INSTRUCTIONS

Tools Required for Assembly

- (1) Phillips Head Screwdriver
- (1) 1/2" Wrench*
- (1) 5/16" Wrench or Nutdriver*
- (1) 7/16" Wrench*

*Or one 6" Adjustable Wrench.

UNPACKING

1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Disconnect and ground the spark plug wire against the engine. Check beneath the deck for any cardboard packaging. Remove if present.
3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

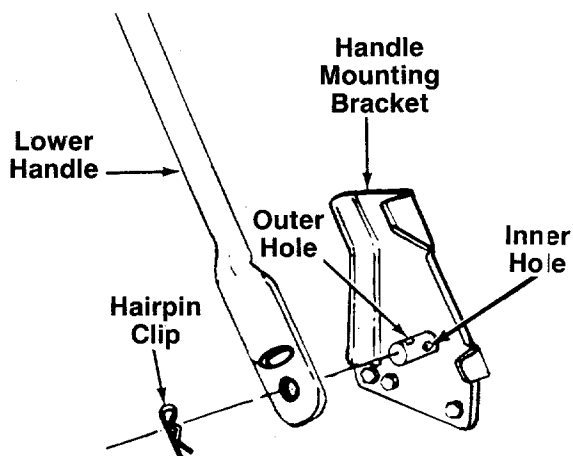


FIGURE 1.

ATTACHING THE LOWER HANDLE (Hardware A)

Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mounting brackets on the rear of the deck. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin clips in **inner** holes on weld pins. See figure 1.

➡ NOTE

There are two (2) holes in the handle mounting brackets. Place the hairpin clip in the inner hole for operation. Outer hole is for storage.

➡ NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the handle mount brackets.

ATTACHING THE UPPER HANDLE (Hardware B)

1. Place the upper handle in position over the lower handle. The label on the throttle control housing and the control lever must be facing up.

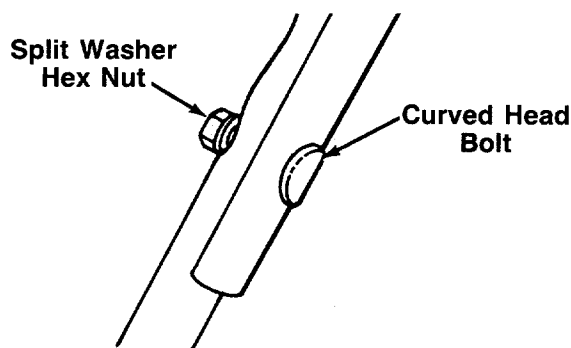


FIGURE 2.

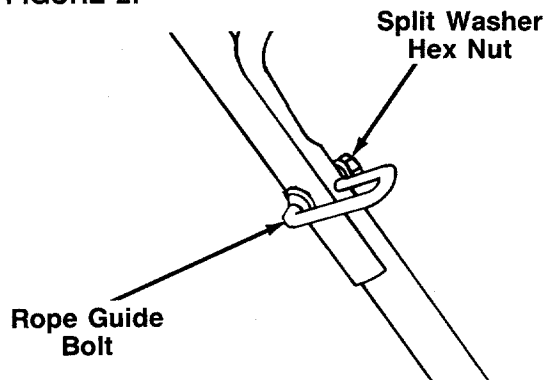


FIGURE 3.

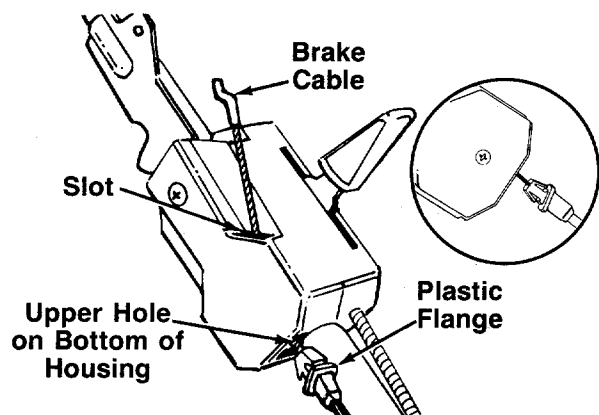


FIGURE 4.

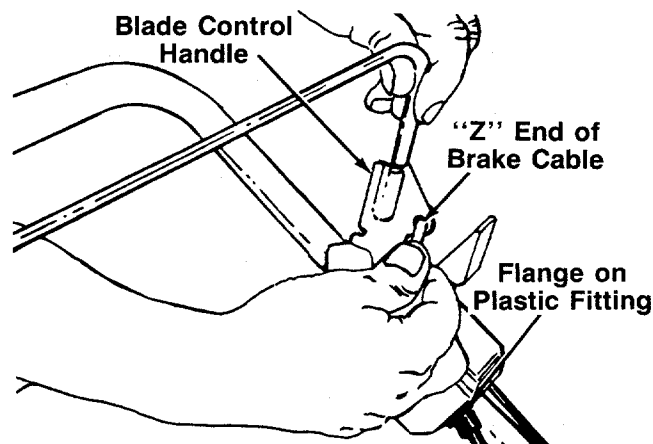


FIGURE 5.

NOTE

The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting by following steps 2 and 3 and reversing the left and right hand instructions.

- ← 2. Secure the left hand side of upper handle using the curved head bolt, split washer and hex nut as shown in figure 2.
- ← 3. Insert the rope guide bolt through the right hand side of upper and lower handle. See figure 3. Secure with split washer and hex nut, finger tight only.

ATTACHING THE BRAKE CABLE

1. The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable below the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the plastic flange must be positioned downward as shown in figure 4. Be careful not to bend or kink the cable at any time.
- ← 2. Push the plastic fitting until it locks into the control housing.



WARNING

Brake cable must be assembled as shown for proper blade brake operation.

- ← 3. Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 5.

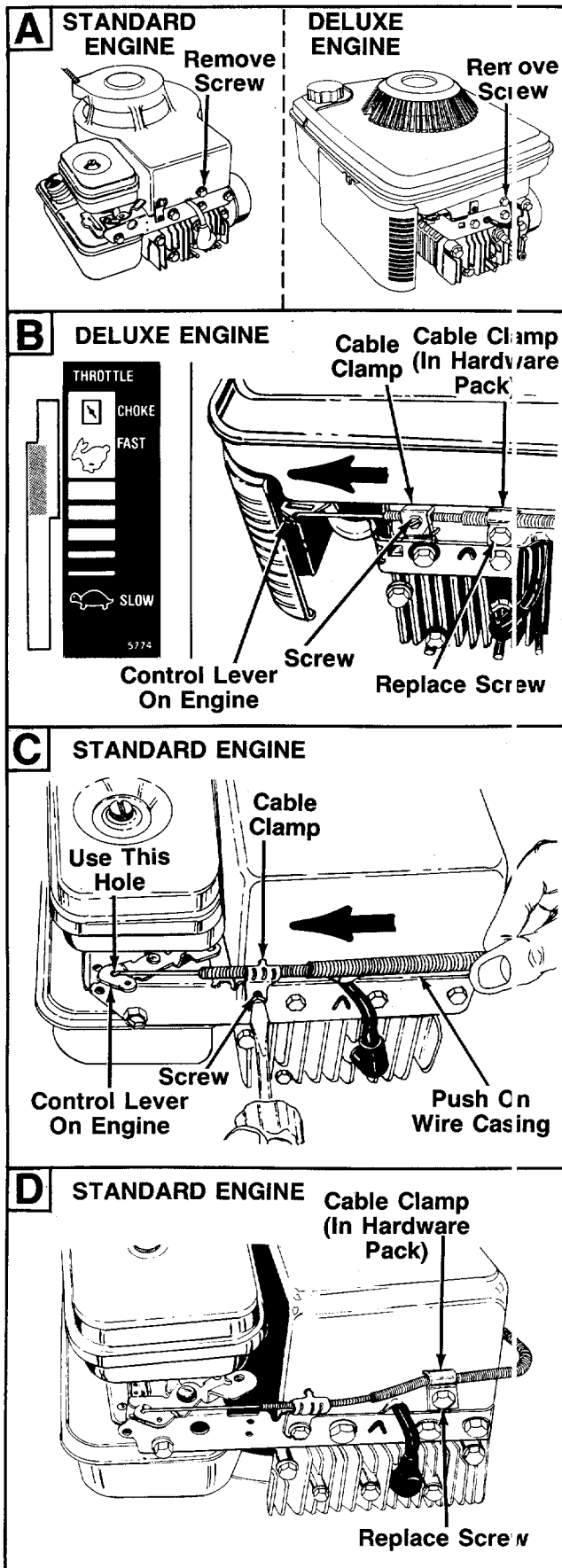


FIGURE 6.

ATTACHING THE THROTTLE CABLE (Hardware C)

Compare the engine on your mower to the engines shown in figure 6A to determine if it is a standard or a deluxe Briggs and Stratton engine. Follow the instructions which pertain to your unit.

1. Using a 7/16" wrench, remove the screw on the engine shown in figure 6A.

2. Place the throttle control lever on the handle in FAST position.

NOTE

Deluxe engine: Move throttle control lever until it stops in FAST position (do not push all the way forward to CHOKE position). See figure 6B.

3. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and inside the handle mounting bracket. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.

NOTE

Standard engine: Hook the cable into the arm on the control lever on the engine which has two holes, using the outside hole as shown in figure 6C.

4. Remove the screw on the cable clamp on the engine shown in figure 6B (deluxe engine) or 6C (standard engine). Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).

NOTE

Deluxe engine: The control casing goes under the clamp and above the screw as shown in figure 6B.

5. **Deluxe engine:** Slide the control lever on the engine as far toward the outside of the engine as it will go easily (just until resistance is felt) as shown in figure 6B. (Do not force it into the extreme outside position, which is the CHOKE position.) Tighten the screw to secure the throttle control cable in this position.

Standard engine: Place the control lever on the engine in the full open position by pushing it toward outside of the unit. Push the wire casing on the throttle control cable toward the control lever on the engine as shown in figure 6C as you tighten the screw on the cable clamp.

6. Loosen the screw on the clamp on the side of the engine. Secure the cable away from the muffler. Be careful not to bend or kink the cable. Tighten the screw.

7. Secure cable casing to the front of engine with cable clamp provided in hardware pack and screw removed from engine in step 1 as shown in figure 6B or 6D. Do not overtighten.

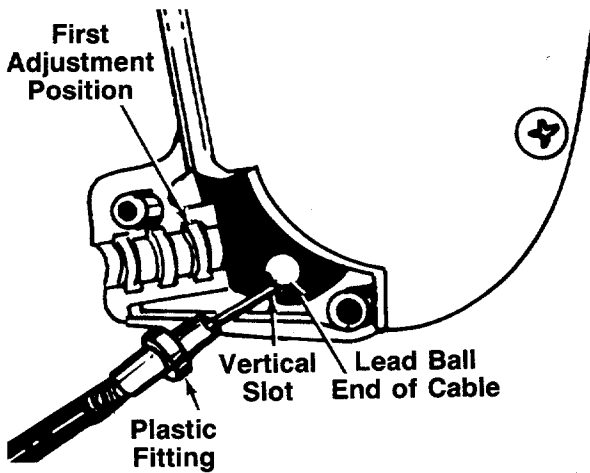


FIGURE 7.

ATTACHING THE DRIVE CLUTCH CONTROL CABLE (Hardware E)

The drive clutch control cable is attached to the deck. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.

1. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 7.

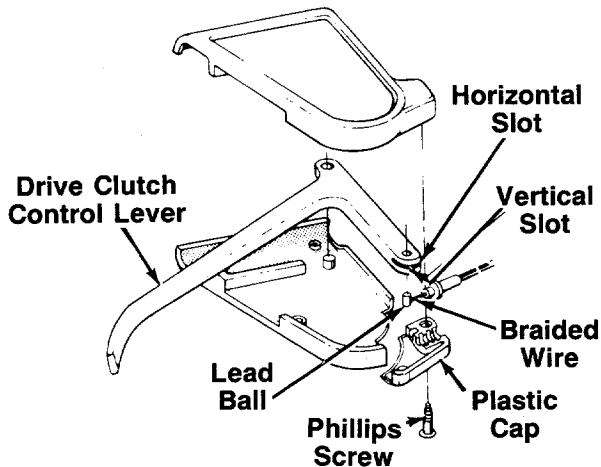


FIGURE 8.

2. Slide the braided wire around in the horizontal slot. See figure 8.
3. Place the plastic fitting on the control cable into the first adjustment position in the clutch control housing. See figure 7.
4. Secure the plastic cap to the clutch control housing using the two Phillips head screws. See figure 8.



WARNING

Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

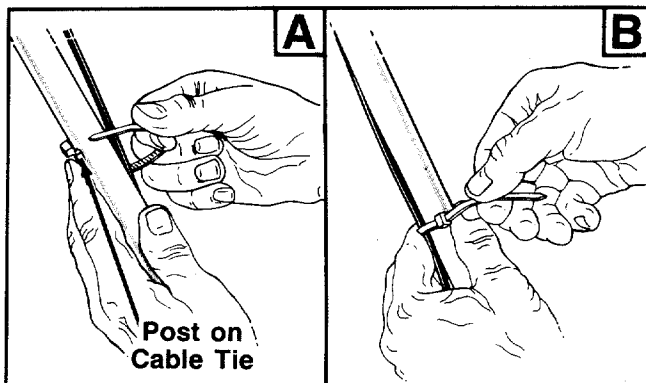


FIGURE 9.

SECURING THE CABLES (Hardware F)

Secure all cables to the left side of the handle as follows.

- A. Insert posts on cable ties into holes provided on the inside of the lower handle, one near the top and one near the bottom of lower handle. See figure 9A.
- B. Secure the cables with the cable ties. See figure 9B.
- C. Trim excess ends of cable ties.

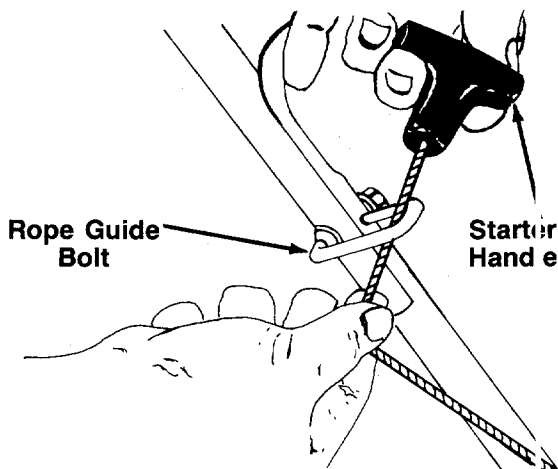


FIGURE 10.

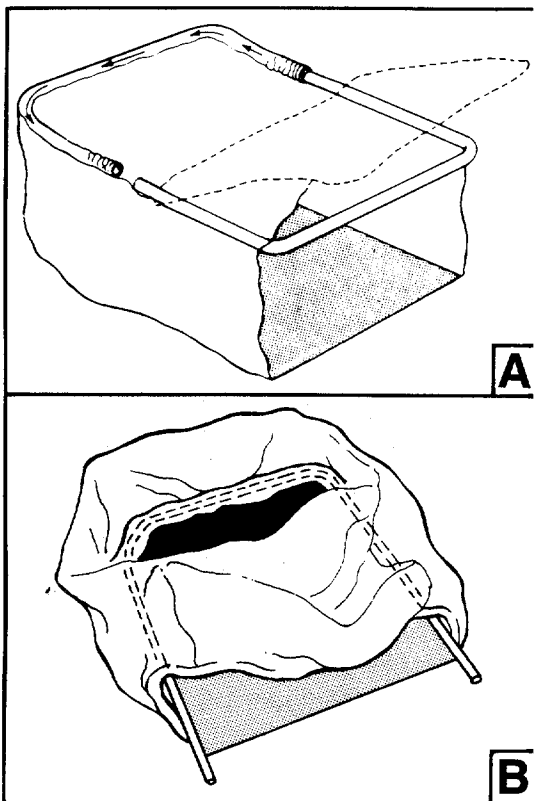


FIGURE 11.—Bag with Flip Top Opening

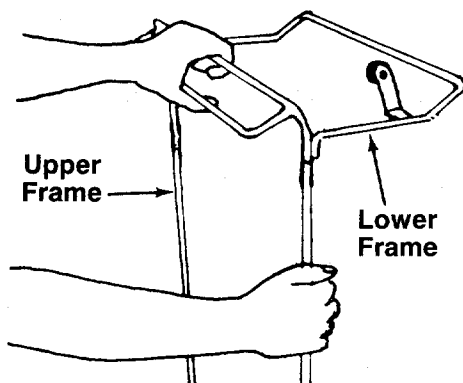


FIGURE 12.

ATTACHING THE STARTER ROPE

1. The starter rope is inside the top of the engine. Additional rope may be wound around the starter handle. If so, unwind the rope from the handle.
2. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the rope out of the engine.
3. Slip the starter rope into the rope guide bolt as shown in figure 10.
4. Tighten the hex nut on the rope guide bolt securely.

FINAL ASSEMBLY OF MOWER (Hardware D)

1. If plastic plugs are not already assembled, insert plastic plugs into holes in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug. Use a soft hammer if necessary.
2. Attach front hub caps (optional) to the wheels by lining up the four tabs on the hub caps with the four holes in the wheels. Push to lock in position.
3. Make certain **all** nuts and bolts are tightened securely.

ASSEMBLY OF GRASS CATCHER

There are two different types of grass bags, bags with and without flip top openings. Follow the instructions which pertain to your unit.

1. Grass Bags with Flip Top Opening:
 - a. Attach bag to rear frame by inserting one end of frame into pocket from inside bag. See figure 11A.
 - b. Thread all material on one side of frame before working it around the frame.
 - c. After threading, both ends of frame should be inside the bag. See figure 11B.

2. Join the upper frame and lower frame assembly as shown in figure 12.

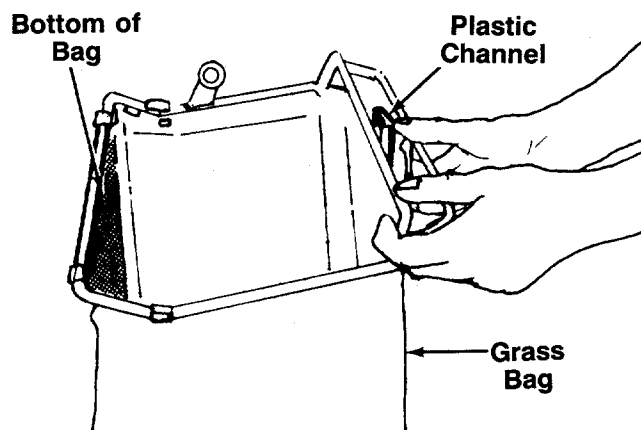


FIGURE 13.

3. Grass Bags without Flip Top Opening: Place bag over frame (black plastic side is the bottom of bag). Upper frame goes to the top of bag.

4. Secure bag to frame by slipping plastic channels on bag over frame. See figure 13.

5. Grass Bags with Flip Top Opening: Close top of bag by stretching loose material over the end of the frame.



Never operate the mower with the bag open.

ATTACHING BAG TO MOWER



DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

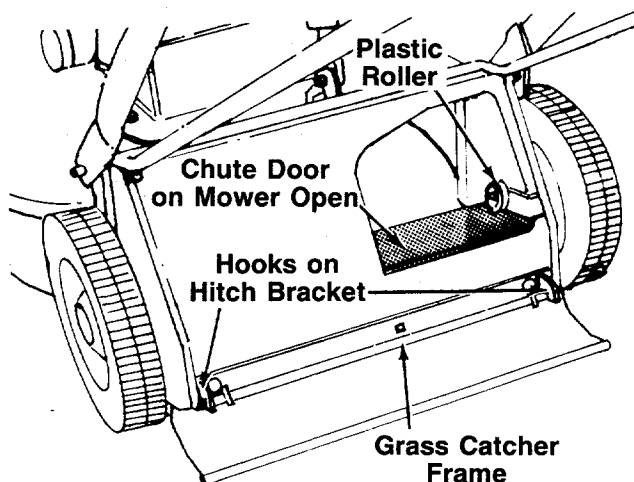


FIGURE 14.

1. Attach the grass catcher frame to grass catcher hitch bracket on rear of the mower by hooking grass catcher into hooks on grass catcher hitch bracket. See figure 14.

2. Lift the rear of grass catcher up. The roller on the grass catcher will push the chute door on the mower open. See figure 14.



Figure 14 is shown with the chute door open for clarity only.

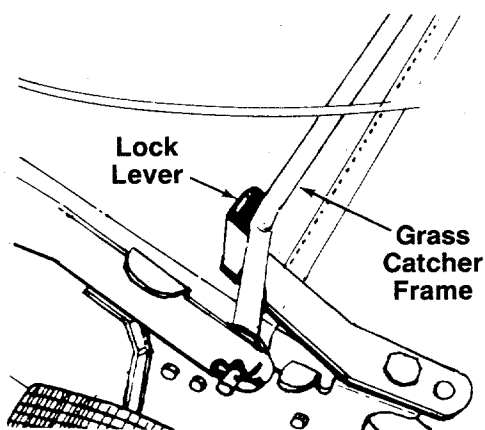


FIGURE 15.

The grass catcher frame will snap into place, secured by the lock lever. See figure 15.

To remove the grass catcher, unhook the lock lever and slip the grass catcher off the unit. See figure 15.

CONTROLS

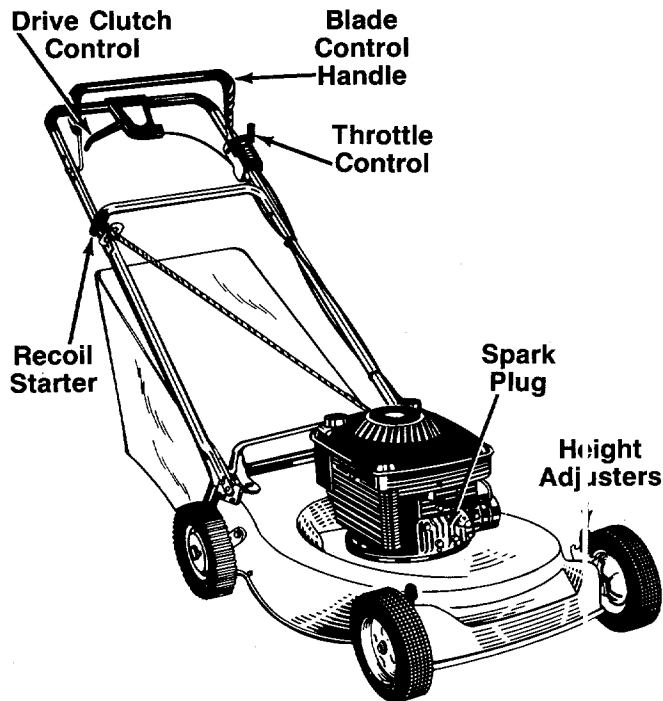


FIGURE 16.

BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 16. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed.



The throttle control cannot be used to stop the engine.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 16.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 16. Stand behind the unit in the operating position to start the unit.

OPERATION



FIGURE 17.

Keep hands and feet away from the chute area on cutting deck. See figure 17.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.

NOTE

Your unit has been shipped without oil; however, a small amount of oil may be present from the factory. Do not overfill.



WARNING

Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

BEFORE STARTING

Before each use, check for proper drive clutch operation by performing the following before starting the engine:

With the drive clutch control released, push mower forward. It should move freely. **Pull mower backward. It should move freely.**

If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, or grass buildup in the pulley groove. Correct and adjust as required.

TO START ENGINE AND ENGAGE BLADE



WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 7.

1. Attach spark plug wire to spark plug.
2. **Deluxe Briggs and Stratton engines:** Open fuel shut-off valve. See figure 18.

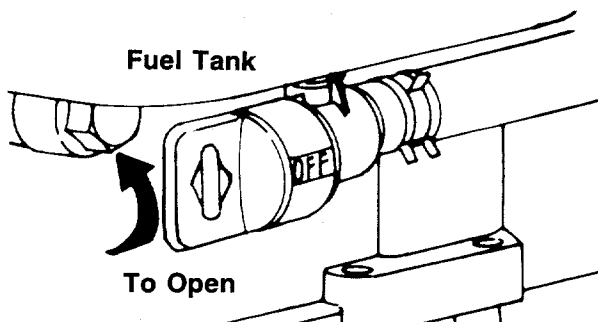


FIGURE 18.

3. Move the throttle control lever to FAST or START position.



NOTE

On units with deluxe Briggs and Stratton engines, move throttle control lever to CHOKE position.

4. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown. See figure 19.
5. Grasp the recoil starter handle and pull back rapidly, extending rope fully. Return it slowly to the rope guide bolt.
6. After engine starts, move throttle control to desired engine speed.

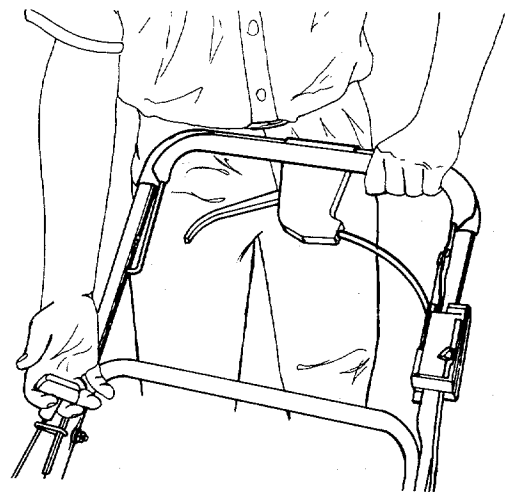


FIGURE 19.



NOTE

If any problems are encountered, refer to the Trouble Shooting Chart on page 19.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



WARNING

The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER



DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

→ IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 20.

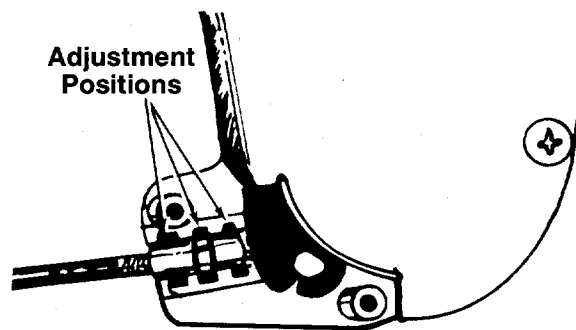


FIGURE 20.

CUTTING HEIGHT ADJUSTMENT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 21.

→ IMPORTANT

When changing the positions of the rear height adjusters, move one side two or three positions only, then move the other side in the same manner to avoid binding the rear axle. Repeat until desired height is reached.

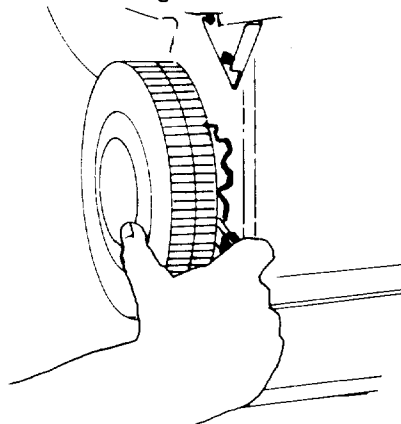


FIGURE 21.

Cutting height will be raised as front levers are moved to the front, and rear levers are lowered. Cutting height will be lowered as front levers are moved to the rear, and rear levers are raised. All wheels must be placed in the same relative position.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Loosen the screw on the cable clamp closest to the control lever on engine. Adjust as instructed in step 5 of "Attaching the Throttle Control Cable" in Assembly Instructions.

CARBURETOR ADJUSTMENTS



WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load. To adjust carburetor, refer to the separate engine manual packed with your mower.



NOTE

A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

LUBRICATION



WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 22. The blade control must operate freely in both directions.

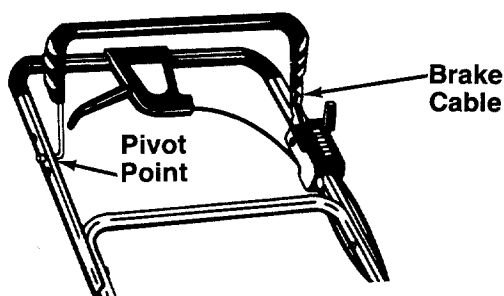


FIGURE 22.

Discharge Chute Door Mechanism—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner sur-

face of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—Periodically lubricate the chain with appropriate chain lubricant. A stiff or rusted chain can be restored by removing the master link, soaking the chain in kerosene or a solvent, letting it air dry and wiping the chain with a rag saturated with lubricant.

If the rotary mower is operated in a sandy area, the chain should not be lubricated with oil. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

MAINTENANCE



NOTE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

TROUBLE SHOOTING

Refer to page 19 of this manual for trouble shooting information.

CUTTING BLADE

A. Removal for Sharpening or Replacement



WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

Pay particular attention to the area of the rear baffle and chain. Grass may accumulate in this area and must be cleaned out periodically to prevent possible problems with the clutch engagement.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

➡ NOTE

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE

Refer to the separate engine manual for all engine maintenance instructions.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

BELT REMOVAL AND REPLACEMENT

1. Disconnect the spark plug wire and ground it.
2. Drain the fuel tank or place a piece of plastic film beneath the cap to prevent gasoline leakage.
3. Remove the three screws which hold the belt guard (and idler assembly). See figure 23.

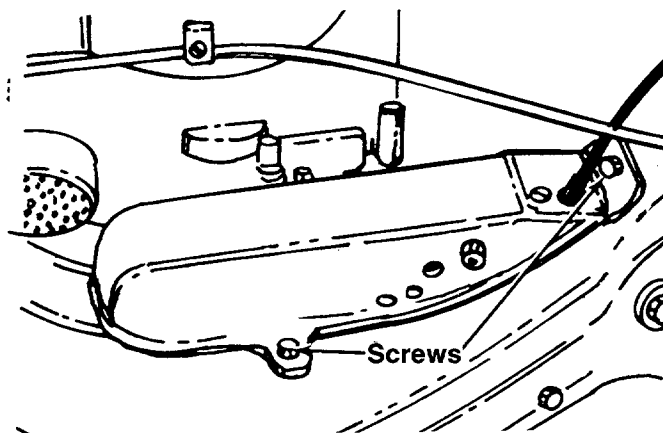


FIGURE 23.

4. Remove the belt from the idler as you lift off the belt guard.
5. Remove hex nut and Belleville washer from height adjustment lever on left side of mower as shown in figure 24.

➡ NOTE

There is another Belleville washer, located between the pivot bracket and the deck. Make certain to reassemble one Belleville washer on each side of the pivot bracket, with the cupped side of both washers toward the pivot bracket.

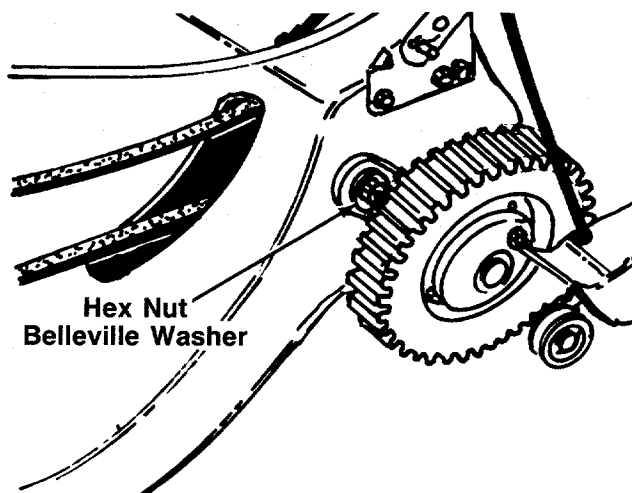


FIGURE 24.

6. Tip the mower forward. Place the handle of the mower against a bench so that the bottom of the deck can be reached.



Make sure that the mower is secure and cannot tip over.

7. Remove the rear baffle by removing three bolts, lock washers and hex nuts. See figure 24.

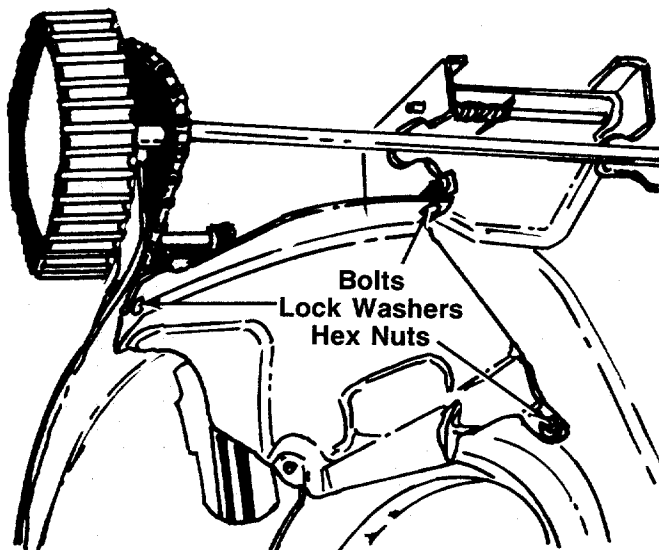


FIGURE 25.

8. Move the rear height adjustment levers down below the index plates to allow slack in the chain.
9. Grasping the pulley, pull the pulley shaft from the deck. The chain can now be removed from the sprocket on the pulley. See figure 25.

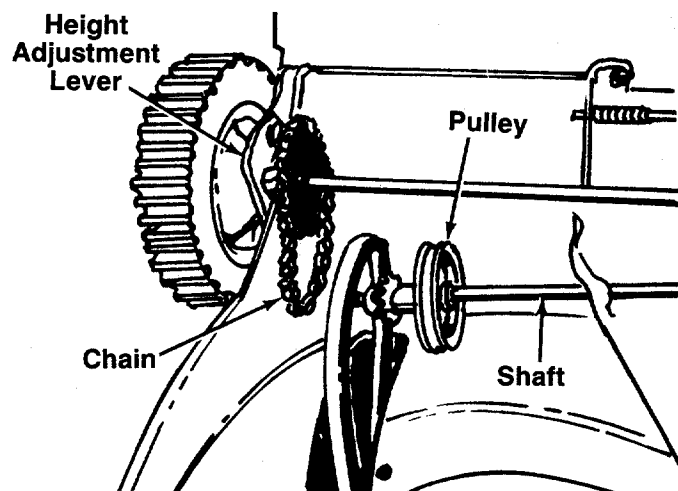


FIGURE 26.

10. Remove the belt from the pulley and the engine pulley.
11. Reassemble in reverse order with the new belt, making certain the idler pulley is under the belt. See figure 26.

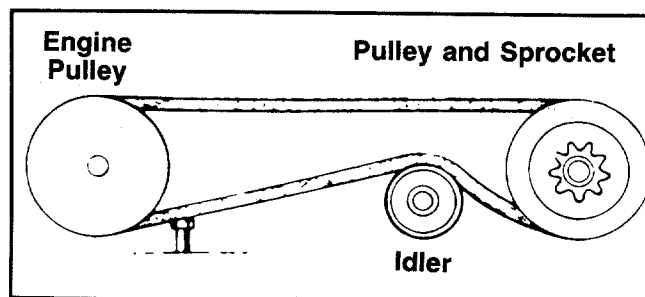


FIGURE 27.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.

NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

HANDLE STORAGE

The handle may be placed in an upright position for storage.

Move hairpin clips to outer hole on weld pins. See figure 1. Press outward on the bottom of the lower handle and push forward. The handle will lock in this position.

To place the handle in the operating position, remove the starter rope from the rope guide bolt. Grasp the lower handle at the bottom, pull apart slightly and tip the handle backward. Place the hairpin clips in the inner holes. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the starter rope out from the engine. Slip the starter rope into the rope guide bolt.

NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 023 is available as replacement equipment for the mower shown in this manual.



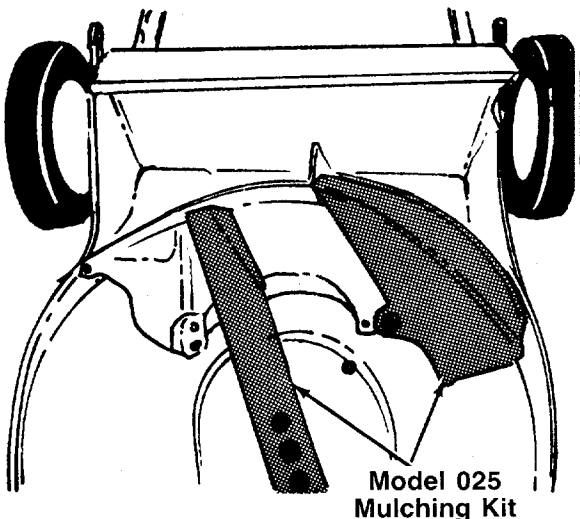
WARNING

1. DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.

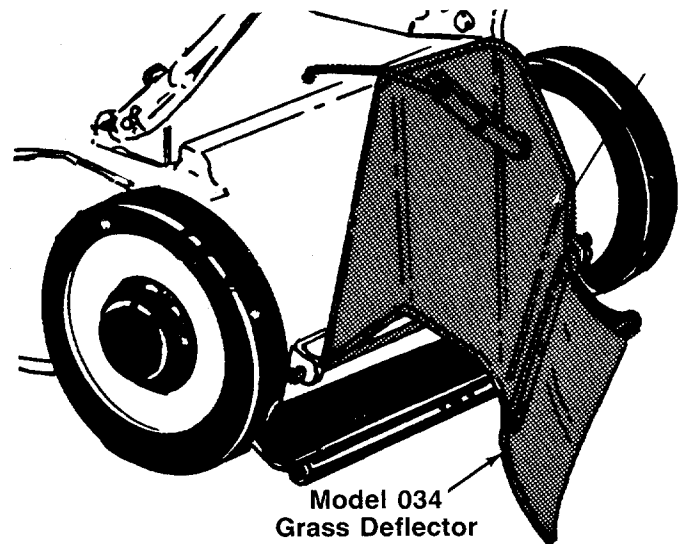
NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0171 (without Flip Top) or 764-0170 (with Flip Top).



Model 025
Mulching Kit



Model 034
Grass Deflector

Mulching Kit model 190-025-000 and Grass Deflector model 190-034-000 are available as optional equipment.

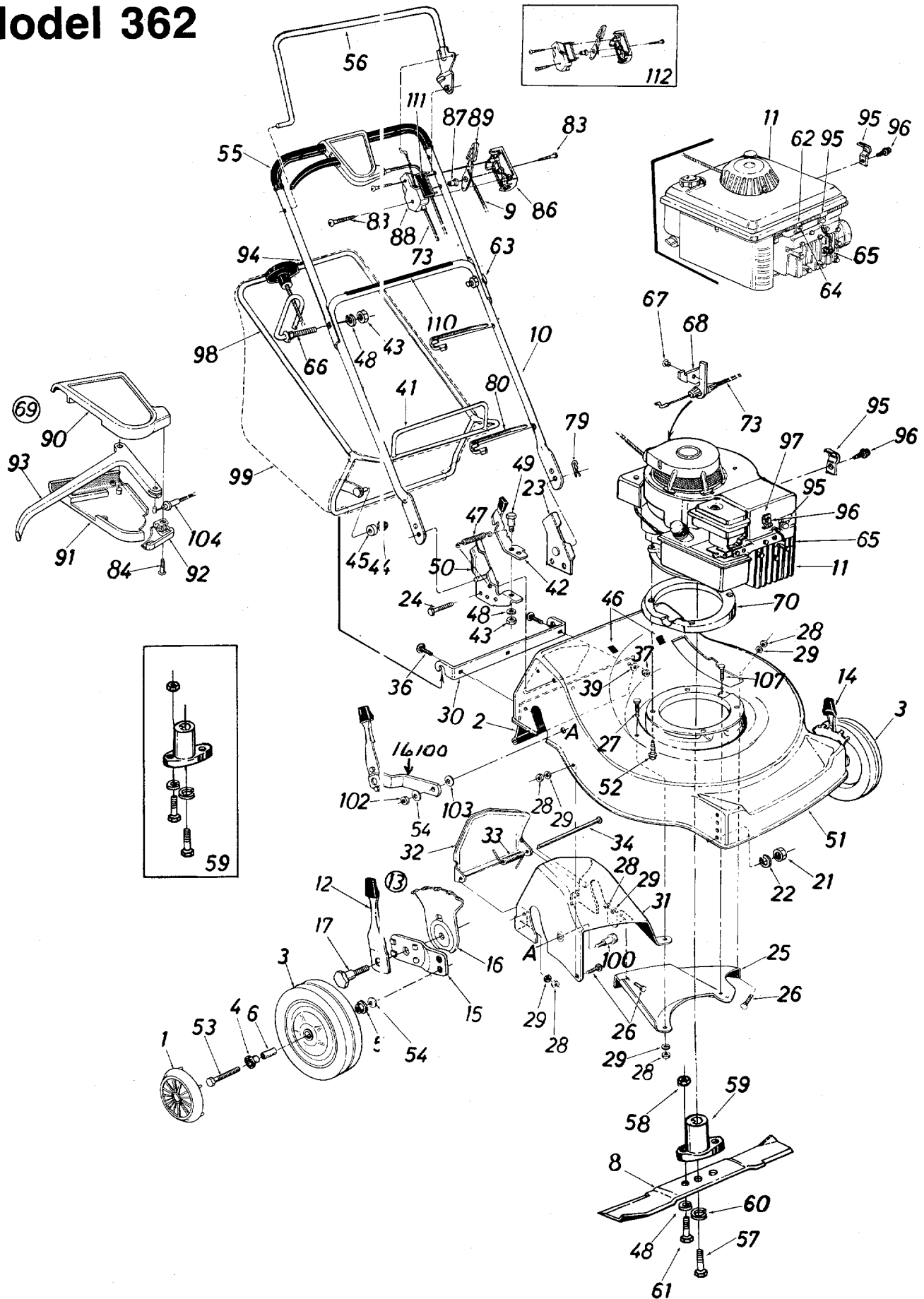
Trouble Shooting Chart

Symptom	Possible Causes	Corrective Action
1 Engine fails to start	A Blade control handle disengaged B Check fuel tank for gas C Fuel shut-off valve closed (on units so equipped) D Spark plug lead wire disconnected. E Throttle control lever not in the starting position F Faulty spark plug G Carburetor improperly adjusted, engine flooded H Old stale gasoline I Engine brake engaged	A Engage blade control handle. B Fill tank if empty. C Open fuel shut-off valve. D Connect lead wire. E Move throttle lever to start position. F Clean, adjust gap or replace.† G Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures. H Drain and refill with fresh gasoline. I Follow starting procedure.
2 Hard starting or loss of power	A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner	A Connect and tighten spark plug wire. B Adjust carburetor.† C Clean air cleaner.†
3 Operation erratic	A Dirt in gas tank B Dirty air cleaner C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted	A Remove the dirt and fill tank with fresh gas. B Clean air cleaner.† C Drain contaminated fuel and fill tank with fresh gas. D Clear vent or replace gas cap. E Adjust carburetor.†
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjustment improperly set	A Adjust carburetor.† B Adjust to .030". C Adjust carburetor.†
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner	A Reset gap to .030" or replace spark plug. B Adjust carburetor.† C Clean air cleaner.†
6 Engine overheats	A Carburetor not adjusted properly B Air flow restricted C Engine oil level low	A Adjust carburetor.† B Remove blower housing and clean.† C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced B Bent cutting blade	A Tighten blade and adapter. Balance blade. B Replace blade.

†Refer to separate engine manual packed with your unit.

Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Model 362



Model 362

PARTS LIST FOR MODEL 362 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	†		Hub Cap		54	736-0105		Belleville Washer	
2	731-0664		Rear Flap Ass'y.		55	718-0145		Grip	
3	**		Front Wheel Ass'y		56	14321		Control Handle	
4	**		Bearing			731-0609		Control Handle w/Plastic	
5	**		Bearing		57	710-0331		Hex Bolt 3/8-24 x 2.25"	
6	**		Spacer (Used w/Ball Brg. Only)		58	712-0123		Hex Nut 5/16-24 Thread	
8	742-0125		22" Blade		59	753-0348		Blade Adapter Kit	
9	746-0633		Throttle Control Wire—58"		60	736-0217		L-Wash. 3/8" I.D.—H.D.	
10	749-0505		Lower Handle		61	710-0888		Hex Bolt 5/16-24 x 1.00"	
11	—		Engine		62	751-0442		Casing Clamp	
12	14832		Spring Lever Ass'y.		63	710-0671		Carr. Bolt 5/16-18 x 1.38"	
13	14578		Height Adj. Ass'y. Comp.—R.H.		64	710-0436		Hex B-Tap Scr. #10 x .62"	
14	14579		Height Adj. Ass'y. Comp.—L.H.		65	735-0639		Spark Plug Boot	
15	15262		Pivot Bar		66	710-0842		Rope Guide Bolt	
16	15261		Index Plate		67	728-0171		Pop Rivet	
17	738-0507		Shld. Bolt .50" Dia. x .357		68	14924		Control Bracket	
21	712-0798		Hex Nut 3/8-16 Thd.*		69	753-0362		Clutch Control Housing Comp.	
22	736-0356		Bell-Wash. .39" I.D. x 1.38"		70	13773		Engine Mount Cover	
23	12297		Handle Bracket—L.H.		71	710-0227		Hex AB-Tap Scr. #8 x .38"	
24	710-0776		Hex Self-Tap Screw 1/4" x .62" Lg.		73	746-0477		Control Cable—43"	
25	14014		Rear Baffle—L.H.		79	714-0104		Cotter Pin 5/16	
26	710-0167		Carriage Bolt 1/4-20 x .50"		80	726-0241		Cable Tie	N
27	710-0206		Hex Bolt 1/4-20 x .88" Lg.*		83	710-0796		Truss Mach. Scr. #12 x 1.5"	
28	712-0287		Hex Nut 1/4-20 Thd.*		84	710-0841		Self-Tap Scr. #10 x 1.0" Lg.	
29	736-0329		L-Wash. 1/4" I.D.*		86	731-0817		Control Panel Half	
30	14012		Hitch Bracket		87	731-0524		Control Disc Pin	
31	14235		Rear Chute Baffle		88	731-0816		Clutch Panel Half	
32	13407		Chute Door		89	731-0528		Throttle Control Lever	
33	732-0346		Torsion Spring		90	731-0617		Control Cover Half—Upper	
34	738-0386		Hinge Pin		91	731-0618		Control Cover Half—Lower	
36	710-0703		Carr. Bolt 1/4-20 x .75" Lg.		92	731-0619		Cable Mounting Cap	
37	712-0271		Sems Nut 1/4-20 Thd.		93	731-0620		Control Lever	
39	736-0211		Flat Wash. .285" I.D.		94	749-0437		Upper Handle	
41	14582		Catcher Lower Frame		95	12894		Casing Clamp	
42	14845		Lock Lever		96	710-0429		Hex B-Tap Scr. #10 x .38"	
43	712-0267		Hex Nut 5/16-18 Thd.*		97	751-0369		Casing Clamp	
44	726-0100		Push Cap		98	749-0278		Catcher Upper Frame	
45	731-0430		Plastic Roller		99	746-0171		Grass Bag (without Flip Top)	
46	731-0564		Plug			764-0170		Grass Bag (with Flip Top)	
47	732-0357		Extension Spring		100	738-0430		Shoulder Bolt	
48	736-0119		L-Wash. 5/16" I.D.*		102	712-0342		Hex Jam Nut 3/8-16 Thd.	
49	738-0155		Shoulder Bolt		103	736-0219		Belleville Washer	
50	14592		Handle Bracket—R.H.		104	746-0463		Clutch Cable—50"	
51	16116	463	22" Deck Ass'y.		107	710-0642		Hex Self-Tap Screw 1/4-20 x .75" Lg.	
52	710-0654		Hex Self-Tap Screw 3/8-16 x 1.00" Lg.		110	777-5776		Instruction Label—Handle	
53	**		Axle Bolt		111	777-5773		Control Label—Throttle	
					112	753-0430		Control Housing Comp.	N
					—	8362-000-7		Hardware Pack	

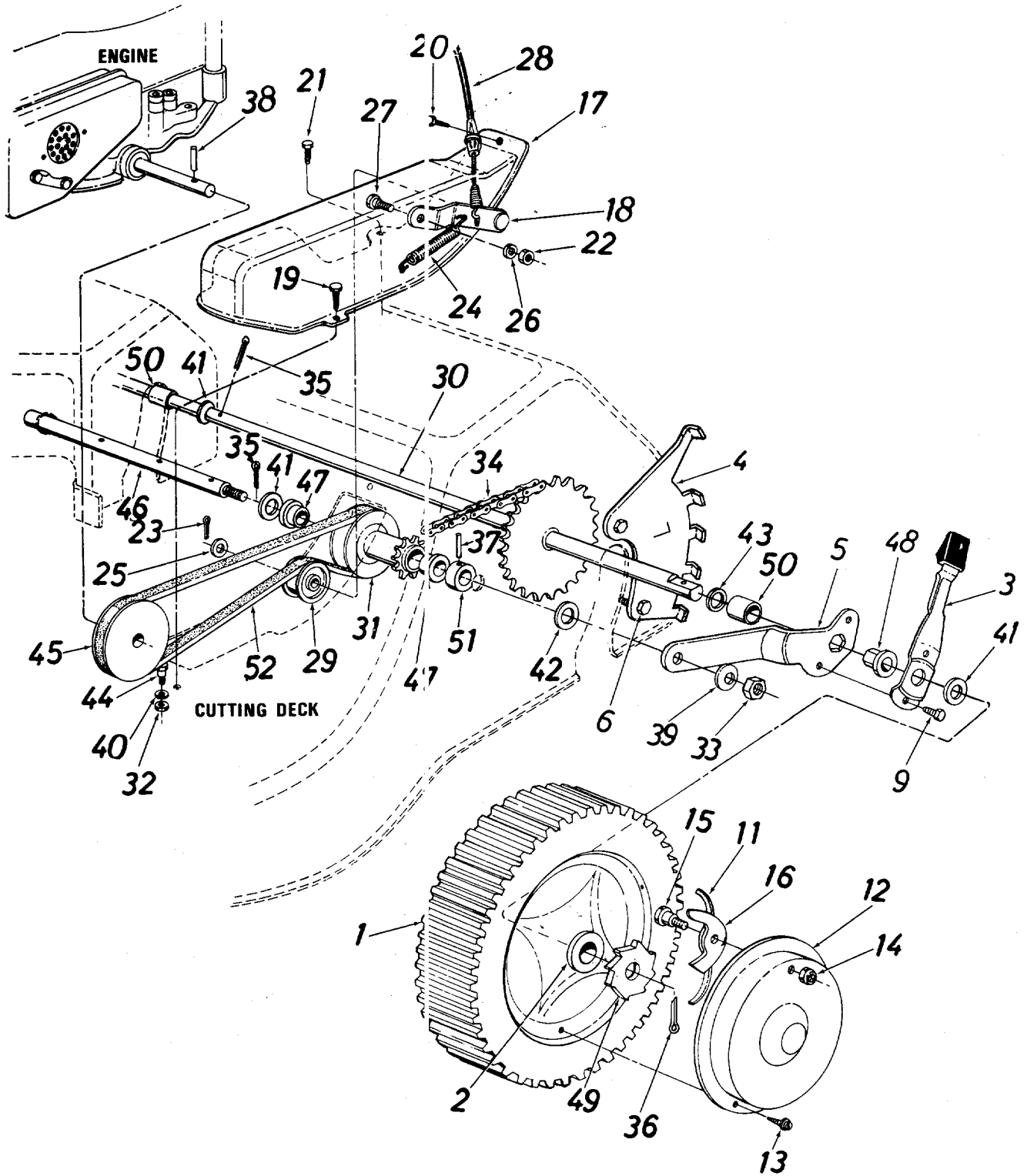
**FRONT WHEEL CHART

Wheel Assembly (8 x 1.75)			Bearings	Axle Bolt
Smooth	Waffle Tread	Twinline Tread		
734-0843	734-0894	734-0661	Plastic—741-0262	738-0102
734-0845	734-0645	734-0643	3/8" Ball—741-0267 1/2" Ball—741-0484 Spacer—750-0434	710-0427

†Front Hub Caps (Optional)

Color	Part No.
Red	731-0124
Orange	731-0254
Black	731-0354
Gray	731-0355

Model 362



Model 362

PARTS LIST FOR MODEL 362 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	734-1411		Wheel Ass'y. Comp. 8.0 x 1.75	N	29	756-0360		Flat Idler—Plastic	
2	741-0180		Flange Brg.—1/2" I.D.		30	13414		Rear Shaft Ass'y.	
3	732-0467		Spring Lever w/Knob		31	756-0191		Pulley w/9 Tooth Sprocket Ass'y.	
4	16097		Index Plate—L.H.		32	712-0267		Hex Nut 5/16-18 Thd.*	
4	16098		Index Plate—R.H. (Not Shown)		33	712-0342		Hex Jam Nut 3/8-16 Thd.	
5	16099		Pivot Brkt.—L.H.		34	713-0144		#48 Chain 1/2" Pitch x 31 Links	
	16100		Pivot Brkt.—R.H. (Not Shown)			713-0122		Master Link	
6	710-0892		Hex Wash. Hd. Tap Scr. 1/4 x .62" Lg.		35	714-0111		Cotter Pin 3/32" Dia. x 1.00" Lg.*	
9	710-0352		Hex B-Tap Scr. 1/4 x .38" Lg.		36	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
11	10622		Nylon Spring		37	715-0120		Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
12	10647		Hub Cap		38	715-0144		Spring Pin Spir. 3/16" Dia. x 1.50" Lg.	
13	710-0748		Pan Hd. Tap Scr. #12 x .50" Lg.		39	736-0105		Bell-Wash. .400" I.D. x .88" O.D.	
14	712-0324		Hex Ins. L-Nut 1/4-20 Thd.		40	736-0119		L-Wash. 5/16" I.D.*	
15	738-0137		Shld. Bolt .342" Dia. x .268		41	736-0160		Fl-Wash. .531" I.D. x .930" O.D.	
16	748-0188		Pawl		42	736-0219		Bell-Wash. .400" I.D. x 1.13" O.D.	
17	12309		Belt Cover		43	736-0326		Fl-Wash. .510" I.D. x 1.0" O.D.	
18	13415		Idler Bracket Ass'y.		44	738-0141		Shld. Bolt .437" Dia. x .350" Lg.	
19	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.		45	756-0384		Engine Pulley	
20	710-0456		Hex Drilling Scr. #10 x .50" Lg.		46	738-0471		Pulley Shaft—10.0" Lg.	
21	710-0642		Hex TT-Tap Scr. 1/4-20 x .75" Lg.		47	741-0248		Flange Brg. .506" I.D. Plastic	
22	712-0287		Hex Nut 1/4-20 Thd.*		48	741-0324		Hex Flange Brg. x .506" I.D. Plastic	
23	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*		49	748-0187		Ratchet	
24	732-0357		Extension Spring .33" O.D. x 1.12" Lg.		50	750-0190		Spacer .765" I.D. x .89" O.D. x .960" Lg.	
25	736-0160		Fl-Wash. .531" I.D. x .930" O.D.		51	750-0387		Spacer .505" I.D. x .88" O.D. x .44" Lg.	
26	736-0329		L-Wash. 1/4" I.D.*		52	754-0252		"V"-Belt	
27	738-0255		Shld. Bolt .375" Dia. x .181						
28	746-0463		Clutch Cable—50"						

*For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

If color or finish is important when ordering parts, use the appropriate color code shown below [i.e. (part no.)-463 for Topflite Red Finish].



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

Color Codes

312—White
436—Radiant Yellow
452—Black
456—Radiant Tangerine
460—Green Flake

463—Topflite Red
480—Brilliant Green
483—Charcoal Grey
606—Majestic Orange
629—Silver Flake

NOTE: The engine is not under warranty by the mower manufacturer... If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. \$5233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop.	5301 Roundtop Drive
	Box 368, Rt. 4 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street \$3257
COLORADO	DENVER
Spitzer Industrial Products Co.	6601 N.
	Washington St. \$0229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St.
	Box 5459 \$2207
	HIALEAH
Small Eng. Dist.	7995 W. 26th Court \$3016
GEORGIA	EAST POINT
East Point Cycle & Key Inc.	2834 Church St. \$0344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. \$0534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. 46516
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy \$2001
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire
	Ave. 20912
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. \$1107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 48910
	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard 48043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. \$5343
MISSOURI	EARTH CITY
Oscar Wilson Engine & Parts	4159 Shoreline Dr. \$3045
	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. \$4109
Ross-Frazer Supply Co.	ST. JOSEPH
	8th and Monterey \$4503
Henzler, Inc.	ST. LOUIS
	2015 Lemay Ferry Rd. \$3125
NEW JERSEY	ALLOWAY
Piersons	Canal St. \$8001
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts Co.	1023 Third Ave. N.W. \$7103

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619
NORTH CAROLINA	GREENSBORO
Dixie Sales Company	335 N. Green 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
National Central	WADSWORTH
	687 Seville Rd. 44281
Burton Supply Co.	YOUNGSTOWN
	1301 Logan Ave.
	Box 929 44501
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
	WILLOW GROVE
Thompson Rubber Co.	850 Davisville Rd. 19090
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
Frank Roberts & Sons	PUNXSUTAWNEY
	R.D. 2 15767
Scranton Auto Ignition Co.	SCRANTON
	1133-35 Wyoming Ave. 18509
TENNESSEE	KNOXVILLE
Ace Distributors	2103 Magnolia 37919
	MEMPHIS
American Sales & Service, Inc.	3035-43 Bellbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson 75203
	FORT WORTH
Woodson Sales Corp.	6733 Baker Blvd.
	Hwy. 10 76118
Bullard Supply Co.	HOUSTON
	2409 Commerce St. 77003
Engine House Inc.	SAN ANTONIO
	8610 Botts Lane
	P.O. Box 17867 78217
UTAH	SALT LAKE CITY
Powered Products	1661 N. Beck St. 84116
VIRGINIA	ASHLAND
RBI Corp.	101 Cedar Ridge Dr. 23005
WASHINGTON	SEATTLE
Equip. Northwest	1410 14th Ave. 98122
WISCONSIN	MILWAUKEE
Wisconsin Magneto Inc.	4727 N. Teutonia St. 53209

WARRANTY PARTS AND SERVICE POLICY

(0686)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has not control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number, Serial Number and/or Data Code of unit involved.
2. Date unit was purchased or first put into service.
3. Date of Failure.
4. Nature of Failure.